502086892 10/08/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Masaru SASAKI	09/07/2012
Kazuki MOYAMA	09/07/2012
Masaki INOUE	09/06/2012
Yoko NOTO	10/01/2012

RECEIVING PARTY DATA

Name:	TOKYO ELECTRON LIMITED
Street Address:	3-1, Akasaka 5-chome, Minato-ku
City:	Tokyo
State/Country:	JAPAN
Postal Code:	107-6325

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13582523

CORRESPONDENCE DATA

Fax Number: 8602860115

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 860-286-2929

Email: usptopatentmail@cantorcolburn.com

Correspondent Name: CANTOR COLBURN LLP

Address Line 1: 20 Church Street Address Line 2: 22nd Floor

Address Line 4: Hartford, CONNECTICUT 06103

ATTORNEY DOCKET NUMBER:	BPL0192US
NAME OF SUBMITTER:	Jaegyoo Jang

Total Attachments: 6

REEL: 029089 FRAME: 0227

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PATENT REEL: 029089 FRAME: 0228

ASSIGNMENT

WHEREAS We,

Masaru SASAKI of c/o TOKYO ELECTRON TECHNOLOGY DEVELOPMENT INSTITUTE, INC., 2-1, Osawa3-chome, Izumiku, Seidai City, Miyagi 981-3137, Japan, Kazuki MOYAMA of c/o TOKYO ELECTRON TECHNOLOGY DEVELOPMENT INSTITUTE, INC., 1-8, Fuso-cho, Amagasaki City, Hyogo 660-0891, Japan,

Masaki INOUE of c/o TOKYO ELECTRON TECHNOLOGY DEVELOPMENT INSTITUTE, INC., 2-1, Osawa3-chome, Izumiku, Seidai City, Miyagi 981-3137, Japan and

Yoko NOTO of c/o TOKYO ELECTRON TECHNOLOGY DEVELOPMENT INSTITUTE, INC., 2-1, Osawa3-chome, Izumiku, Seidai City, Miyagi 981-3137, Japan (hereina fter referred to as "ASSIGNORS"); have invented certain new and useful improvements in:

PLASMA ETCHING METHOD, METHOD FOR PRODUCING SEMICONDUCTOR DEVICE, AND PLASMA ETCHING DEVICE

which claims priority to Japanese Patent Application No. 2010-048450, filed on March 4, 2010, for which We are about to file an application for Letters Patent of the Unite d States;

AND WHEREAS, TOKYO ELECTRON LIMITED (hereinafter referred to as "ASSIGNEE"), a corporation organized and existing under the laws of the Country of Japan, having a place of business at Address: 3-1, Akasaka 5-chome, Minato-ku, Tokyo 107-6325, Japan, is desirous of acquiring an interest in the United States and all foreign countries, in and to the said invention and Letters Patent to be obtained therefor;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, the receipt of which is hereby acknowledged, We, the said ASSIGNORS have assigned and transferred, and hereby assign and transfer unto the said ASSIGNEE, the entire right, title and interest in and to said invention in the United States and

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in all foreign countries, including priority rights, as fully set forth and described in said application; and We do hereby authorize and request the Commissioner of Patents to issue said Letters Patent on said application, and any and all Letters Patent that may be issued upon any and all revivals, refilings, continuations, continuations-in-part, divisions and reissues thereof, to the said ASSIGNEE, an assignee of the entire right, title and interest in and to the same, for the sole use and behoof of ASSIGNEE, its successors and assigns; and We do hereby agree that the said ASSIGNEE, may apply for foreign Letters Patent on said invention and that We will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by the said ASSIGNEE, its successors or assigns, and that We will, at the cost and expense of the said ASSIGNEE fully assist and cooperate in all matters in connection with the United States and foreign applications and patents issuing thereon.

The undersigned declare that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: Sapt. 7, 20,2	Masaru Sasaki
Date: Sort 7, 20/2	Masaru SASAKI Majule Maja Kazaki MOYAMA
Date:	Kazaki MOYAMA
Date:	Masaki INOUE
Date	Yoko NOTO

ASSIGNMENT

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Yoko NOTO of c/o TOKYO ELECTRON TECHNOLOGY DEVELOPMENT INSTITUTE, INC., 2-1, Osawa3-chome, Izumiku, Seidai City, Miyagi 981-3137, Japan (hereina fter referred to as "ASSIGNORS"); have invented certain new and useful improvements in:

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The undersigned declare that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date:	
	Masaru SASAKI
Date:	
	Kazuki MOYAMA
Date: Gez. 6. 2012	Mark Inoue
·	Masaki INOUE
Date:	
	Yoko NOTO

ASSIGNMENT

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Date:	
	Masaru SASAKI
Date:	
	Kazuki MOYAMA
Date:	
	Masaki INOUE
Date: 18t Oct 2012	Yoko NOTO
• •	Yoko NOTO

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